



8 November 2018

Mr. Jason Pelton  
New York State Department of Environmental Conservation  
Division of Solid & Hazardous Materials  
625 Broadway  
Albany, NY 12233-7252

**Subject: GROUNDWATER DISCHARGE MONITORING/AIR EMISSION REPORT  
GM-38 AREA, NWIRP BETHPAGE, NY; DER SITE # 1-30-003B-OU 2  
OCTOBER 2018 REPORTING PERIOD**

Dear Mr. Pelton:

KOMAN Government Solutions, LLC (KGS) is submitting this monthly monitoring report of the groundwater discharge and air emission results for the Groundwater Treatment Plant (GWTP) located at the Former Naval Weapons Industrial Reserve Plant (NWIRP), Bethpage, NY, GM-38 Area. This report was prepared in accordance with GWTP operational requirements for DER Site # 1-30-003B-OU 2, and the SPDES Permit Equivalent # 13003B.

GWTP operational data from 1 October to 31 October 2018 are presented in Attachment A. In the October reporting period, approximately 32 hours of downtime was recorded for the replacement of spent carbon in the three liquid GAC units on 8-9 October. No other downtime was recorded for the October reporting period at GM38.

As indicated in Attachment A, all SPDES permitted constituents were in compliance with regulatory guidelines during this reporting period.

Please contact me at 610-400-0622 with any questions or concerns you may have regarding this report.

Sincerely,

***KOMAN Government Solutions, LLC***

Stephane Roy  
Project Manager

Attachment A: Groundwater and Air Sampling Results from October 2018

Cc: S. Edwards, NYSDEC  
D. Hesler, NYSDEC  
C. Haas, NYSDEC Region 1

W. Parish, NYSDEC Region 1  
R. Wither, NYSDEC Division of Water  
J. Pilewski, NYSDEC – Region 1 Water Engineer  
S. Karpinski, NYSDOH  
J. Lovejoy, NCDH  
L. Thantu, USEPA Region 2  
G. Ennis, Nassau County Department of Public Works  
S. Urban, Nassau County Department of Public Works  
T. Licata, Town of Oyster Bay  
M. Russo, Town of Oyster Bay  
L. Fly, NAVFAC Mid-Atlantic  
B. Murray, NAVFAC Mid-Atlantic RPM  
G. Pearman, NWIRP Bethpage  
GM-38 Copy

**ATTACHMENT A**  
**GROUNDWATER AND AIR SAMPLING RESULTS**  
**OCTOBER 2018**

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Discharge Monitoring Report  
October 2018**

SPDES Parameters	October 2018 <sup>(1)</sup>					
Process Stream	Daily Treated Effluent Maximum <sup>(1)</sup>	Units	RW-1	RW-3 <sup>(2)</sup>	Combined Influent <sup>(3)</sup> (RW-1 + RW-3)	Treated Effluent
Well Depth	N/A	ft	445	530	N/A	N/A
Screened Interval	N/A	ft bgs	335-395 410-430	392-412 442-504	N/A	N/A
Sampling Date	N/A		10/10/18			
Effective Flowrate	1100	GPM	634	168	802	848
Total Flow	N/A	gallons	27,844,544	7,376,725	35,221,270	37,233,451
pH	5.5 - 8.5	SU	5.05	5.08	4.88	6.07
Chloroform	5	µg/L	0.300 J	0.320 J	0.304 J	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.42	1.73	1.48	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	0.230 J	ND (1.0)	0.182 J	ND (1.0)
1,1-Dichloroethene	5	µg/L	0.840 J	1.29	0.93	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	5.04	1.63	4.33	ND (1.0)
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Tetrachloroethene	5	µg/L	17.4	ND (1.0)	13.8	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.630 J	0.760 J	0.657 J	ND (1.0)
Trichloroethene	5	µg/L	74.2	182	96.8	0.300 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	0.790 J	0.17 J	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dioxane	--	µg/L	NS	NS	NS	0.078
Mercury	0.00025	mg/L	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Total Suspended Solids (TSS)	N/A	mg/L	ND (1.0)	2.0	0.4	ND (1.0)

**Notes:**

J - Estimated result between laboratory method detection limit and reporting limit

D - Concentration is a result of a dilution.

ND - Not detected above laboratory method detection limit. Reporting Limit (RL) given in parentheses.

NR - Not Recorded

N/A - Not Applicable

NS - Not Sampled

(1) Wastewater discharge equivalence permit renewed on 18 August 2017. Discharge limits established for 10 years. Chloroform, 1,4-dioxane and 1,1,2-trichlorotrifluoroethane are now monitored under the new permit.

(2) Well RW-3 was placed back in operation on 1 June, 2018.

(3) Influent concentrations presented are the weighted average concentrations of RW-1 and RW-3.

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Air Sampling Results  
October 2018**

DAR Parameters		Discharge Goal <sup>(1)</sup>	October 2018	
Process Stream			Influent	Effluent
Sampling Date			10/10/18	
Average Flowrate	CFM	N/A	NR	9,381
Total Flow	ft <sup>3</sup>	N/A	NR	418,780,594
Total Flow	m <sup>3</sup>	N/A	NR	11,858,546
1,2-Dichloroethane	µg/m <sup>3</sup>	N/A	2.6 J	ND
cis 1,2-Dichloroethene	µg/m <sup>3</sup>	> 100,000 <sup>(2)</sup>	54	16
trans 1,2-Dichloroethene	µg/m <sup>3</sup>		ND	ND
1,2-Dichloroethene (total)	µg/m <sup>3</sup>	>100,000	56	17
Toluene	µg/m <sup>3</sup>	N/A	1.6 J	ND
Total Xylene	µg/m <sup>3</sup>	N/A	ND	ND
1,1,2-Trichloroethane	µg/m <sup>3</sup>	N/A	2.1 J	ND
Trichloroethene	µg/m <sup>3</sup>	2,600	1700	3.8 J
Vinyl Chloride	µg/m <sup>3</sup>	560	ND	ND
Tetrachloroethene	µg/m <sup>3</sup>	5,100	200	0.94 J

Notes:

CFM - cubic feet per minute

DAR - Division of Air Resources

J - Estimated result between laboratory method detection limit and reporting limit

N/A - Not Applicable

NR - Not recorded

(1) Discharge goal as approved by NYSDEC's letter dated 31 October 2013.

(2) Discharge goal is for total 1,2-Dichloroethene.

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Controlled Stack Emissions  
October 2018**

<b>DAR Parameters</b>	<b>Units</b>	<b>Discharge Goal <sup>(1)</sup></b>	<b>October 2018</b>
Sampling Date			10/10/18
Average Flowrate	CFM	N/A	9,381
Total Flow	ft <sup>3</sup>	N/A	418,780,594
Total Flow	m <sup>3</sup>	N/A	11,858,546
Trichloroethene	lb/hr	0.09	0.00013
Vinyl Chloride	lb/hr	0.02	0.00000
1,2 Dichloroethene	lb/hr	11	0.00060
1,2-Dichloroethane	lb/hr	N/A	0.00000
Toluene	lb/hr	N/A	0.00000
Total Xylene	lb/hr	N/A	0.00000
1,1,2-Trichloroethane	lb/hr	N/A	0.00000
Tetrachloroethene	lb/hr	0.18	0.00003

Notes:

CFM - cubic feet per minute

DAR - Division of Air Resources

N/A - Not Applicable

(1) Discharge goal as approved by NYSDEC's letter dated 31 October 2013.